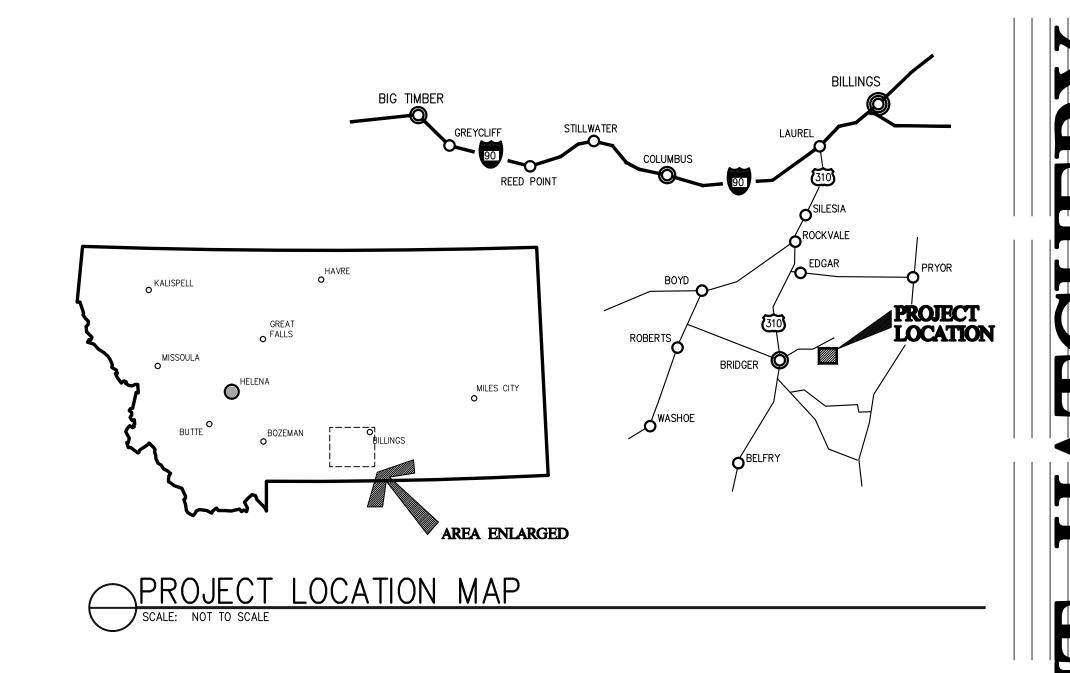
BLUEWATER SPRINGS TROUT HATCHERY A/E #93-35-19

CARBON COUNTY, MONTANA



SCHEDULE OF DRAWINGS

| NO. | DRAWING TITLE | DATE |
|--------------------|--|------------|
| | | |
| GENEI | KAL OFFE DE ANI | 20 DEC 200 |
| SDU | SHE FLAN | 20 DEC 200 |
| SDIJ | EVICTING OFFE ITHIFFY DIAN | 20 DEC 200 |
| ODI 2 | COODDINATE TABLE | 20 DEC 200 |
| ann ann | COORDINATE TABLE | 20 DEC 200 |
| SDSU | STATUSAND DETAILS | 20 DEC 200 |
| SD31 | EXISTING SITE PLAN | 20 DEC 200 |
| CIIS ATT | SITE PLAN SITE SURFACING PLAN EXISTING SITE UTILITY PLAN COORDINATE TABLE STANDARD DETAILS SITE DEMOLITION PLAN EXISTING SITE PLAN | |
| CIVIL | CRAIL ADDDERAATECNIC | 20 DEC 200 |
| C-2 | CIVIL ABBREVIATIONS CIVIL LEGEND HYDRAULIC PROFILE YARD PIPING I YARD PIPING II PIPE & VALVE SCHEDULE SITE GRADING PLAN FIRST PASS AERATION TO SPRING RACEWAY TO FIRST PASS AERATION HATCHERY BYPASS PAP BACTEWAY BEISE PAP | 20 DEC 200 |
| 0- <u>2</u> ∩-2 | TIALD VILLE COUNTE | 20 DEC 200 |
| C-3 | VADD DIDING I | 20 DEC 200 |
| C-5 | VADO DIDING II | 20 DEC 200 |
| C-6 | | 20 DEC 200 |
| C-7 | SPTE GRADING PLAN | 20 DEC 200 |
| C-8 | FIRST PASS AFRATION TO SPRING | 20 DEC 200 |
| C_0 | PACEWAY TO FIRST PASS AFRATION | 20 DEC 200 |
| C-10 | HATCHERY TO FIRST PASS AFRATION | 20 DEC 200 |
| C-11 | HATCHERY RYPASS P&P | 20 DEC 200 |
| C-12 | RACEWAY RELIEF PAP AND HEADER DRAIN | 20 DEC 200 |
| C-13 | RACEWAY REUSE P&P AND HEADER DRAIN NORMAL OPERATING DISCHARGE (NOD) WASTE DISCHARGE P&P | 20 DEC 200 |
| C-14 | WASTE DISCHARGE P&P | 20 DEC 200 |
| C-15 | WASTE DISCHARGE P&P HATCHERY REUSE TO LOWER RACEWAY P&P | 20 DEC 200 |
| C-16 | SETTLING BASIN DRAIN | 20 DEC 200 |
| C-17 | SEPTIC SYSTEM PLAN | 20 DEC 200 |
| C-18 | SANITARY SEWER LIFT STATION PLAN | 20 DEC 200 |
| C-19 | SANITARY SEWER LIFT STATION SECTION | 20 DEC 200 |
| C-20 | SANITARY SEWER DOSING STATION PLAN | 20 DEC 200 |
| C-21 | SANITARY SEWER DOSING STATION PLAN | 20 DEC 200 |
| C-22 | SEPTIC SYSTEM SAND MOUND | 20 DEC 200 |
| C-23 | SEPTIC SYSTEM DETAILS | 20 DEC 200 |
| C-24 | CIVIL DETAILS I | 20 DEC 200 |
| C-25 | CIVIL DETAILS II | 20 DEC 200 |
| CIVIL | WASTE DISCHARGE FREE HATCHERY BEITLING BASIN DRAIN SEPTIC SYSTEM PLAN SANITARY SEWER LIFT STATION PLAN SANITARY SEWER LIFT STATION SECTION SANITARY SEWER DOSING STATION PLAN SANITARY SEWER DOSING STATION PLAN SANITARY SEWER DOSING STATION PLAN SEPTIC SYSTEM SAND MOUND SEPTIC SYSTEM SAND MOUND SEPTIC SYSTEM DETAILS CIVIL DETAILS I CIVIL DETAILS II MECHANICAL | |
| CM-1 | INTAKE SCREENING STRUCTURE FIRST PASS AERATION STRUCTURE HATCHERY AERATION STRUCTURE RACEWAY AERATION PLANS & SECTIONS AERATION COLUMN DETAILS UPPER RACEWAY WETWELL HATCHERY BUILDING PIPING PLAN HATCHERY BUILDING PIPING DETAILS I | 20 DEC 200 |
| CM-2 | FIRST PASS AERATION STRUCTURE | 20 DEC 200 |
| CM-3 | HATCHERY AERATION STRUCTURE | 20 DEC 200 |
| CM-4 | RACEWAY AERATION PLANS & SECTIONS | 20 DEC 200 |
| CM-5 | AERATION COLUMN DETAILS | 20 DEC 200 |
| CM-6 | UPPER RACEWAY WETWELL | 20 DEC 200 |
| CM-7 | HATCHERY BUILDING PIPING PLAN | 20 DEC 200 |
| CM-8 | HATCHERY BUILDING PIPING DETAILS I | 20 DEC 200 |

| <u>CIVI</u> | DRAWING TITLE | DATE |
|----------------------|---|--------------------------|
| 110. | DRAWING HILL | DAIL |
| CIVIL · | - MECHANICAL (CONTD.) | |
| CM-11 | HATCHERY BUILDING PIPING DETAILS IV | |
| CM-12 | UPPER & LOWER RACEWAY BANKS | 20 DEC 200 |
| CM-13 | HATCHERY BUILDING PIPING DETAILS IV UPPER & LOWER RACEWAY BANKS TYPICAL RACEWAY PROFILE DACEMAY DETAILS | 20 DEC 200 |
| CM-14 | RACEWAY DETAILS RACEWAY DISCHARGE CANAL RACEWAY OUTLET TROUGHS REACEWAY OUTLET SECTION RACEWAY BAFFLES & SCREENS ARTESIAN WELL PIPING PLAN ARTESIAN WELL PIPING DETAILS HATCHERY WASTE LIFT STATION HATCHERY WASTE LIFT STATION | 20 DEC 200 |
| CM-15 | RACEWAY DISCHARGE CANAL | 20 DBC 200 |
| CM-16 | RACEWAY OUTLET TROUGHS | 20 DBC 200 |
| CM-1/ | REACEWAY DATES TO & CODEFINE | 20 DBC 200 20 DBC 200 |
| CM-10 | ADTESIAN WELL DEBING DEAN | 20 DBC 200 |
| CM-D | ARIEMAN WELL FIFING FLAN | 20 DBC 200 |
| CM-20 | HATCHEDY WASTE LIET STATION DIAM | 20 DBC 200 |
| CM-22 | HATCHERY WASTE LIFT STATION | 20 DBC 200 |
| | | |
| CM-24 | HATCHERY WASTE LIFT STATION SECTIONS HATCHERY WASTE LIFT STATION DETAILS | 20 DEC 200 |
| CM-25 | DOMESTIC WATER TREATMENT SYSTEM | 20 DBC 200 |
| CIVIL · | - STRUCTURAL | |
| CS-1 | SPRING OVERFLOW STRUCTURE INTAKE SCREENING STRUCTURAL PLAN FIRST PASS AERATION STRUCTURAL PLAN HATCHERY AERATION STRUCTURAL PLAN AFRATION COLUMN SUPPORTS | 20 DEC 200 |
| CS-2 | INTAKE SCREENING STRUCTURAL PLAN | 20 DEC 200 |
| CS-3 | FIRST PASS AERATION STRUCTURAL PLAN | 20 DEC 200 |
| CS-4 | HATCHERY AERATION STRUCTURAL PLAN | 20 DBC 200 |
| CS-5 | AMARITON COLOMIN BOTTOMB | |
| CS-6 CS-7 CS-8 | UPPER RACEWAY WETWELL STRUCTURE | 20 DEC 200 |
| CS-7 | RACEWAY STRUCTURAL DETAILS | 20 DBC 200 |
| | | 20 DEC 200 |
| CS-9 CS-10 | SETTLING BASINS | 20 DEC 200 20 DEC 200 |
| CS-10 CS-11 | | |
| CS-12 | SPRING COVER FOUNDATION FLAN | 20 DEC 200 |
| CS-13 | SPRING COVER ELEVATIONS & DETAILS I | 20 DEC 200 |
| CS-14 | | 20 DBC 200 |
| CS-15 | SPRING COVER TYPICAL SECTIONS II | 20 DBC 200 |
| CS-16 | | 20 DEC 200 |
| | STRUCTURAL DETAILS | 20 DEC 200 |
| | SAN. SEW. DOSING STATION STRUCTURAL | 20 DEC 200 |
| CS-18 CS-19 | | 20 DEC 200 |
| | STRUCTURAL PLAN | |
| | - ELECTRICAL | |
| CE-1 | HATCHERY LIFT STATION PUMP LOGIC SAN. SEW. LIFT STATION PUMP LOGIC | 20 DEC 200 |
| CE-2 | SAN. SEW. LIFT STATION PUMP LOGIC | 20 DEC 200 |
| ₽ | AUDODITANDONO DI DODDICAT INDICATO | 40 DEC 400 |

| NO. | DRAWING TITLE | DATE |
|-----|----------------------------|-------------|
| S-1 | STRUCTURAL NOTES & DETAILS | 20 DEC 2002 |
| S-2 | FOUNDATION PLAN | 20 DEC 2002 |
| S-3 | ROOF FRAMING PLAN | 20 DEC 2002 |
| S-4 | TRUSS & WALL ELEVATIONS | 20 DEC 2002 |
| S-5 | CEILING FRAMING DETAILS | 20 DEC 2002 |
| S-6 | POUNDATION WALL SECTIONS | 20 DEC 2002 |
| S-7 | FRAMING DETAILS | 20 DEC 2002 |
| S-8 | FRAMING DETAILS | 20 DEC 2002 |

| NO. | DRAWING TITLE | DATE |
|------|--------------------------------------|------------|
| SD21 | SITE DETAILS | 20 DEC 200 |
| SD32 | SITE USAGE PLAN | 20 DBC 200 |
| ALO | FLOOR PLAN | 20 DEC 200 |
| A2.0 | EXTERIOR ELEVATIONS | 20 DBC 200 |
| A21 | EXTERIOR ELEVATIONS | 20 DEC 200 |
| A3.0 | BUILDING SECTIONS & DETAILS | 20 DEC 200 |
| A3.1 | BUILDING SECTIONS & WALL SECTIONS | 20 DBC 200 |
| A3.2 | WALL SECTIONS & DETAILS | 20 DBC 200 |
| A33 | BUILDING DETAIL SECTIONS | 20 DEC 200 |
| A4.0 | ENLARGED PLANS & INTERIOR ELEVATIONS | 20 DEC 200 |
| A5.0 | SCHEDULES / DOOR & WINDOW TYPES | 20 DEC 200 |
| A51 | DOOR DETAILS | 20 DEC 200 |
| A52 | WINDOW DETAILS | 20 DEC 200 |
| A6.0 | DETAILS | 20 DEC 200 |

| <u>MECHANICAL</u> | | | | | |
|-------------------|---|------------------------|--|--|--|
| NO. | DRAWING TITLE | DATE | | | |
| ML0 M21 | MECHANICAL LEGENDS, SCHEDULES, DETAILS MECHANICAL FLOOR PLAN | 20 DEC 20 20 DEC 20 | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| NO. | DRAWING TITLE | DATE |
|------|--------------------------------------|-------------|
| PL0 | PLUMBING LEGENDS, SCHEDULES, DETAILS | 20 DEC 2002 |
| P2.1 | SANITARY WASTE & VENT FLOOR PLAN | 20 DEC 2002 |
| P2.2 | DOMESTIC WATER & GAS PIPING PLAN | 20 DEC 2002 |

| NO. | DRAWING TITLE | DATE |
|------|--|-------------|
| ELO | ELECTRICAL LEGENDS, SCHEDULES, DETAILS | 20 DEC 2002 |
| E21 | ELECTRICAL POWER FLOOR PLAN | 20 DEC 2002 |
| E2.2 | ELECTRICAL LIGHTING PLAN | 20 DEC 2002 |
| E2.3 | ELECTRICAL SPECIAL SYSTEMS PLAN | 20 DEC 2002 |
| E3.1 | ELECTRICAL SITE PLAN | 20 DEC 2002 |
| E4.0 | PANEL SCHEDULES & DETAILS | 20 DEC 2002 |

CONSULTANTS ROBERT PECCIA & ASSOCIATES

MECHANICAL ASSOCIATED CONSTRUCTION ENGINEERING, INC. ELECTRICAL ASSOCIATED CONSTRUCTION ENGINEERING, INC. STRUCTURAL MT STRUCTURAL

GENERAL NOTES

CM-9 HATCHERY BUILDING PIPING DETAILS II CM-10 HATCHERY BUILDING PIPING DETAILS III

L WORK INCLUDED IN THIS CONTRACT, SHALL COMPLY WITH THE LATEST EDITION OF UNIFORM BUILDING CODE. UNIFORM PLUMBING CODE. UNIFORM MECHANICAL CODI NATIONAL ELECTRICAL CODE, AND ALL OTHER LAWS, CODES, OF LOCAL, COUNTY, STATE, AND LOCAL JURISDICTION INVOLVED. THE GENERAL CONTRACTOR SHALL VISIT THE SITE PRIOR TO STARTING THE WORK THE CONTRACTOR SHALL VERIFY GRADES, SITE CONDITIONS, AND COMPARE THAT WITH THE DIMENSIONS SHOWN OTN THE DRAWINGS. WHERE CONFLICT EXISTS, TH

THE CONTRACTOR SHALL CARFFLLLY STUDY ALL PLANS AND DRAWINGS AND SHALL REPORT IMMEDIATELY TO THE ARCHITECT ANY ERRORS, INCONSISTENCIES OR OMISSIONS HE MAY DISCOVER. THE CONTRACTOR SHALL NOT WORK WITHOUT DRAWINGS. THE CONTRACTOR SHALL CONSULT THE ARCHITECT OR SUBMIT SHOP DRAWINGS AND/OR LITERATURE TO THE ARCHITECT FOR APPOVAL PRIOR TO STARTING THE WORK. THE GENERAL CONTRACTOR SHALL GIVE ALL NOTICES AND SHALL COMPLY WITH ALL LAWS, THE PERFORMANCE OF THE WORK. IF THE CONTRACTOR OBSERVES THAT ANY OF THE

CONTRACTOR SHALL NOTIFY THE ARCHITECT UPON RECOGNITION OF ANY DISCREPENCY

NOTIFY THE ARCHITECT OF ANY CHANGES REQUIRING ADJUSTMENT WITH APPROPRIATE

ONLY APPROVED 'CONSTRUCTION SET' MARKED DRAWINGS INCORPORATING ALL ADDENDUM AND DIMENSION CLARIFICATIONS SHALL BE USED DURING THE EXECUTION OF THE WORK. THE CONTRACTOR SHALL USE WRITTEN DIMENSIONS ONLY, OR AS DIRECTED BY ARCHITECT. THE CONTRACTOR SHALL NOT SCALE DRAWINGS. CROSS REFERENCES SHOWN ON DRAWINGS DO NOT NECCESARILY INDICATE ALL LIKE CONDITIONS AND DO NOT LIMIT APPLICATION OF ANY DRAWING OR DETAIL. THEY MAY

INTERIOR WALL DIMENSIONS (FOR NEW WALLS ONLY) ARE TO FACE OF STUD FRAMING UNLESS OTHERWISE NOTED. SECTION AND INTERIOR ELEVATION DIMENSIONS ARE TO THE TOP OF THE DECK SHEATHING OR SUBFLOOR UNLESS OTHERWISE NOTED. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION AND COORDINATION OF SUBCONTRACTORS WORK TO SECURE COMPLIANCE OF DRAWINGS AND SPECIFICATIONS. THE

CONTRACTOR SHALL VERIFY SIZES AND LOCATIONS OF ALL OPENINGS FOR MECHANICAL

ELECTRICAL, STAIRS, ELEVATORS, AND MISCELLANEOUS EQUIPMENT.

AND ELECTRICAL EQUIPMENT WITH RESPECTIVE SUB-CONTRACTORS, AS WELL AS SHOP DRAWINGS REVIEWED BY THE ARCHITECT. CONTRACTOR SHALL VERIFY ALL ROUGH-IN DIMENSIONS FOR EQUIPMENT AND PROVIDE ALL BUCK-OUT BLOCKING AND BACKING REQUIRED BY THIS CONTRACT AND OTHERS. WHERE PIPING, CONDUIT, AND/OR DUCTS PASS THROUGH FIRE RATED WALLS, PACK AROUND OPENINGS WITH SAFING OR SPRAY INSULATION. PROVIDE FIRE DAMPERS WHERE

STRUCTURAL NOTES

CE-3 MISCELLANEOUS ELECTRICAL DETAILS

STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL PROVIDE TEMPORARY BRACING FOR THE STRUCTURE AND STRUCTURAL COMPONENTS UNTIL FINAL CONNECTIONS HAVE BEEN COMPLETED IN ACCORDANCE WITH

TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED TO PERFORM THE WORK. CONTRACTOR INITIATED CHANGES SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT/ OWNER FOR APPROVAL PRIOR TO FABRICATION OR CONSTRUCTION. CHANGES SHOWN ON SHOP DRAWINGS ONLY WILL NOT SATISFY THIS REQUIREMENT. DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED,

SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT. CONCRETE CONSTRUCTION, TEMPORARY BRACING, STRUCTURAL STEEL FABRICATION AND ERECTION SHALL BE SUPERVISED IN ACCORDANCE WITH SECTION 306 OF THE

UNIFORM BUILDING CODE AND THE PROJECT SPECIFICATIONS BY A QUALIFIED TESTING AGENCY DESIGNATED BY THE OWNER. THE ARCHITECT/OWNER SHALL BE FURNISHED WITH COPIES OF ALL INSPECTION REPORTS AND TEST RESÚLTS. SHOP DRAWINGS FOR REINFORCING STEEL FOR CONCRETE CONSTRUCTION (IF REQUIRED) STRUCTURAL STEEL FABRICATED WOOD FLOOR AND ROOF TRUSSES, SHEAR BRACING PREFORMED ROOF AND WALL PANELS SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW PRIOR TO FABRICATION OF THESE ITEMS.

ARCHITECT OF RECORD SHALL REVIEW SHOP DRAWINGS FOR DESIGN INTENT ONLY. DIMENSIONS AND QUANTITIES NOTED ON SHOP DRAWINGS ARE NOT GUARANTEED BY THE FOR COMPONENTS DESIGNED PRIMARILY BY OTHERS SHALL BE APPROVED BY THE COMPONENT DESIGNER PRIOR TO CURSORY REVIEW BY THE ARCHITECT OF RECORD FOR OADS IMPOSED ON THE BASIC STRUCTURE. THE COMPONENT DESIGNER IS RESPONSIBLE FOR CODE CONFORMANCE AND ALL NECCESARY ATTACHMENT CONNECTIONS NOT SPECIFICALLY CALLED OUT ON ARCHITECTURAL OR STRUCTURAL DRAWINGS. SHOP DRAWINGS SHALL INDICATE MAGNITUDE AND DIRECTION OF ALL LOADS IMPOSED ON THE BASIC STRUCTURE SHOP DRAWINGS MUST BE REVIEWED AND STAMPED BY THE CONTRACTOR PRIOR TO REVIEW BY THE ARCHITECT OF RECORD.

TESTED CONCRETE STRENGTHS AT 28 DAYS SHALL BE AS FOLLOWS (Fc') FOUNDATION CONCRETE EXTERIOR SLABS, CURBS PREPARE MIXES AS SPECIFIED IN ACI-301 PROVIDE AIR ENTRAINMENT AS FOLLOWS

CONCRETE NOT EXPOSED TO WEATHER: CONCRETE EXPOSED TO WEATHER:

STRUCTURAL NOTES

REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60, fy = 60,000 PSI. REINFORCING STEEL MAY BE WELDED ONLY IF PROPERTY REPORTS INDICATING CONFORMANCE WITH WELDING PROCEDURES SPECIFIED IN A.W.S. D1.4 ARE SUBMITTED WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185 REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH ACL 315-80 AND ACI 315-89. LAP ALL CONTINUOUS REINFORCEMENT 30 BAR DIAMETERS OR 2'-0' MINIMUM. PROVIDE CORNER BARS AT ALL WALL INTERSECTIONS OF CONCRETE AND MASONRY WALLS. LAP CORNER BARS 30 BAR DIAMETERS OR 2'-0" MINIMUM. LAP ADJACENT MATS OF WELDED WIRE FABRIC A MINIMUM OF 8" AT SIDES AND ENDS.

BARS PARTIALLY EMBEDDED IN HARDENED CONCRETE SHALL NOT BE FIELD BENT UNLESS SPECIFICALLY SO DETAILED OR APPROVED BY THE ARCHITECT MINIMUM PROTECTION FOR REINFORCING STEEL IN CAST IN PLACE CONCRETE CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH —— CONCRETE EXPOSED TO EARTH OR WEATHER NO. 6 - NO. 18 BAR - 2 INCHES

NO. 5 BAR AND SMALLER - 1 1/2 INCHES CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND

SLABS, WALLS, JOISTS:

BEAMS AND COLUMNS ----NON SHRINK GROUT SHALL BE FURNISHED BY AN APPROVED MANUFACTURER AND SHALL BE MIXED AND PLACED IN STRICT ACCORDANCE WITH THE MANUFACTURERS PUBLISHED RECOMMENDATIONS. GROUT STRENGTH SHALL BE AT LEAST EQUAL TO THE MATERIAL ON WHICH IT WAS PLACED (3000 PSI)

NO. 11 BAR AND SMALLER — 3/4 INCHES

CONCRETE MASONRY UNIT WALLS SHALL BE CONSTRUCTED OF GRADE N UNITS CONFORMING TO ASTM C90, SHALL BE LAID UP IN RUNNING BOND UNLESS OTHERWISE INDICATED USING TYPE S MORTAR AND SHALL BE REINFORCED AND ANCHORED AS SHOWN ON THE DRAWINGS. PROVIDE CORNER BARS TO MATCH HORIZONTAL REINFORCING AT ALL INTERSECTING WALLS. DESIGN fm'= 1500 PSI. ALL VERTICAL BARS AND OTHER EMBEDDED STRUCTURAL ATTACHMENTS SHALL BE GROUTED SOLID IN CELLS. GROUT SHALL ATTAIN A MINIMUM COMPRESIVE STRENGTH OF 2000 PSI.

STRUCTURAL STEEL DESIGN FABRICATION AND ERECTION SHALL BE BASED ON THE AISC SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS", 1989 EDITION, PLUS ALL REFERENCED CODES. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING REQUIREMENTS PLATES, SHAPES, ANGLES, BARS AND RODS STRUCTURAL TUBING

ASTM A500 GRADE B, Fy = 46 KSI ANCHOR BOLTS EMBBEDED IN CONCRETE ASTM A36 OR A307 HIGH STRENGTH BOLTS LL WELDING SHALL BE IN CONFORMANCE WITH AISC AND AWS STANDARDS AND SHALL PREQUALIFIED WELDS AS DEFINED BY AWS SHALL BE USED.

STRUCTURAL NOTES

FRAMING LUMBER SHALL BE GRADED AND MARKED IN COMFORMANCE WITH W.C.L.B.

USED AS STUDS & PLATES)

STANDARD GRADING RULES FOR WEST COAST LUMBER NO. 16, LATEST EDITION. FURNISH TO THE FOLLOWING STANDARDS – (UNLESS NOTED ON THE CONTRACT DRAWINGS OTHERWISE):

JOISTS: (INCLUDING 2x6 AND LARGER MEMBERS — DOUGLAS FIR NO.2

- DOUGLAS FIR NO.2 BEAMS & STRINGERS: (INCLUDING 4x AND LARGER) MIN. Fb = 1350 ps- DOUGLAS FIR NO.2 POSTS & TIMBERS : ----MIN. FC = 1000 psiSTUDS PLATES & MISC. LIGHT FRAMING: — DOUGLAS FIR STD. ALL WOOD PLATES IN DIRECT CONTACT WITH CONCRETE OR MASONRY SHALL FRAMING CLIPS, JOIST HANGERS AND OTHER CONNECTION DEVICES SHALL BE BY SIMPSON STRONG-TIE COMPANY OR APPROVED EQUAL. ALL WOOD FRAMING DETAILS NOT SHOWN OTHERWISE SHALL BE CONSTRUCTED TO THE MIN. STANDARDS OF THE U.B.C. (1991 ED.). MINIMUM NAILING, UNLESS OTHERWISE NOTED, SHALL CONFORM TO TABLE 25-Q OF THE UNIFORM BUILDING CODE. COORDINATE THE SIZE AND LOCATION OF ALL OPENINGS WITH MECHANICAL AND ARCHITECTURAL DRAWINGS. PROVIDE WASHERS UNDER THE HEADS AND NUTS OF ALL BOLTS AND LAG SCREWS. ALL STUD WALLS SHOWN AND NOT OTHERWISE NOTED SHALL BE 2x6 STUDS @ 16"O.C 2) STUDS MIN SHALL BE PROVIDED AT THE END OF ALL WALLS AND AT EACH SIDE OF AL OPENINGS. TWO 2x8 HEADERS OR ONE 4x8 HEADER SHALL BE PROVIDED OVER ALL

DOORS AND WINDOWS. SOLID BLOCKING FOR WOOD COLUMNS SHALL BE PROVIDED THROUGH FLOORS TO SUPPORTS BELOW. PROVIDE CONTINUOUS SOLID BLOCKING AT MID-HIEGHT OF ALL STUD WALLS OVER 8'-0" IN HIEGHT. ALL STUD WALLS SHALL HAVE THEIR LOWER WOOD PLATES ATTACHED TO WOOD FRAMING BELOW WITH 16d NAILS AT 12"o.c. STAGGERED OR BOLTED WITH 3/4" DIA. ANCHOR BOLTS @ 4'-0"o.c. UNLESS INDICATED OTHERWISE. INDIVIDUAL MEMBERS OF BUILT-UP POSTS SHALL BE NAILED TOGETHER WITH 16d SPIKES @ 12" o.c. STAGGERED. REFER TO THE PLANS AND WALL SCHEDULE FOR REQUIRED SHEAR WALL SHEATHING & NAILING. WHEN NOT OTHERWISE NOTED, PROVIDE GYPSUM WALL BOARD ON PROVIDE DOUBLE JOISTS UNDER ALL PARALLEL PARTITIONS AND AROUND ALL OPENINGS IN FLOORS OR ROOFS UNLESS OTHERWISE NOTED. PROVIDE BRIDGING @ 8'-0" o.c. AND SOLID BLOCKING AT ALL BEARING POINTS. COORDINATE THE SIZE AND LOCATION OF

OPENINGS NOT OTHEWISE NOTED. ALIGN THE BOTTOM OF ALL HEADERS AT ADJACENT

ALL OPENINGS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. TOENAIL JOIST TO SUPPORTS WITH TWO 16d NAILS. NAIL ALL MULTI-JOIST BEAMS TOGETHER WITH 16d SPIKES @ 12" o.c. STAGGERED. LINIFSS OTHERWISE NOTED ON THE PLANS, PLYWOOD ROOF AND FLOOR SHEATHING SHALL BE LAID UP WITH GRAIN PERPENDICULAR TO SUPPORTS AND NAILED WITH 8d NAILS @ 6" o.c. TO FRAMED PANEL EDGES AND 10" AT INTERMEDIATE SUPPORTS. PROVIDE APPROVED PLYWOOD EDGE CLIPS @ 16" o.c. AT UNBLOCKED ROOF SHEATHING EDGES. ALL FLOOR SHEATHING EDGES SHALL HAVE APPROVED TONGUE-AND-GROOVE JOINTS OR SHALL BE SUPPORTED WITH SOLID BLOCKING. TOENAIL BLOCKING TO SUPPORTS WITH 16d NAILS @ 12" o.c. UNLESS OTHERWISE NOTED.

CODE CHECK

| FIRE ACCESSIBILITY MECHANICAL ELECTRICAL PLUMBING | UMIFORM FIRE CODE (1997 ANSI 117.1 MECHANICAL ELECTRICAL PLUMBING |) |
|---|---|------------------------------------|
| ERMITS | CODE SOURCE LOCAL JURISDICTION | REQUIREMENTS LOCAL JURISDICTION |
| CCUPANCY: | UBC CH. 3 | S2 |
| CCUPANCY SEPARATION | :UBC TABLE 3-B | NONE |
| ONSTRUCTION TYPE: | UBC CH. 6 | TYPE V-N |
| IRE RESISTANCE: | UBC CH. 3 & 7 | NONE |
| REA SEPARATION | UBC CH. 5 | NONE |
| LLOWABLE FLOOR AREA | :UBC TABLE 5-B | 30,000 SQ. FT. |
| AREA INCREASE BASED ON OCCUPANCY | UBC CH. 5 | N/A |
| MISC. INCREASES | UBC CH. ? | N/A |
| NUMBER OF STORIES | UBC TABLE 5-B | 8 |
| ACTUAL AREA | FIRST FLOOR | 7117 SQ. FT. |
| • | TOTAL | 7117 SQ. FT. |
| XITS: | | |
| OCCUPANT LOAD FACTOR (O.L.F.) | UBC TABLE 10-A | 7117/300=23.72 |
| EXIT CALCULATION BASED ON OCC. LOAD | UBC CH. 10 | 7117/300=23.72 1 EXIT REQUIRED |
| DISTANCE TO EXITS | UBC CH. 10 | 300 FT. |
| MINIMUM WIDTH | UBC CH. 10 | * |
| CORRIDORS . | UBC CH. 10 | * |
| OOF CONSTRUCTION: | UBC TABLE 15-A | CLASS B |
| LAME SPREAD: | | |

UBC TABLE 8-B

CLASS ' 🎞

OTHER EXITWAYS

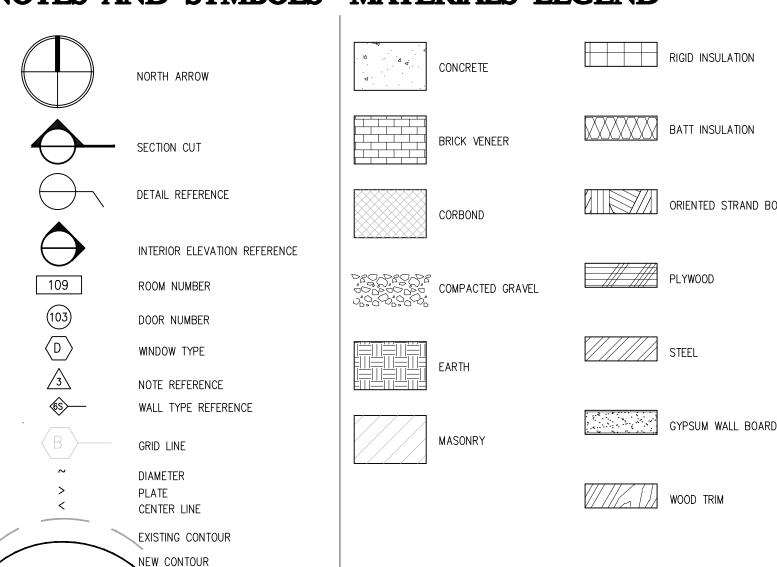
ROOMS OR AREAS

ABBREVIATIONS

| CODES: | | | ALUM. | - ALUMINUM | 0.C. | - ON CENTER |
|---|---|------------------------------------|-------------------------|--|-----------------|---|
| BUILDING FIRE | UNIFORM BUILDING CODE UMIFORM FIRE CODE (19 | (1997) 97) | ANN. | - ANNUNCIATOR | OSB | - ORIENTED STRAND BOARD |
| ACCESSIBILITY MECHANICAL ELECTRICAL | ANSI 117.1 MECHANICAL ELECTRICAL | | CAB. CER. | CABINETCERAMIC | P P.LAM. | PAINTPLASTIC LAMINATE |
| PLUMBING | PLUMBING | | CLR COMP. | - CLEARANCE - COMPUTER | P.STOR. P.T. | - PAPER STORAGE - PAPER TOWEL |
| PERMITS | CODE SOURCE LOCAL JURISDICTION | REQUIREMENTS LOCAL JURISDICTION | CONC. CONF. CORR. | CONCRETECONFERENCECORRIDOR | PVC R | POLYVINYLCHLORIDERADIUS |
| OCCUPANCY: | UBC CH. 3 | S2 | CT | - CERAMIC TILE | REC. | - RECESSED |
| OCCUPANCY SEPARATION | 1:UBC TABLE 3-B | NONE | CUST. | - CUSTOM | REST. | - RESTROOM |
| CONSTRUCTION TYPE: | UBC CH. 6 | TYPE V-N | D.F. DISP. | DRINKING FOUNTAINDISPENSER | S SC | - STAIN - SOLID CORE |
| FIRE RESISTANCE: | UBC CH. 3 & 7 | NONE | D.M. DR | DRYMARK BOARDDRAWER | S.F. SIM. | SQUARE FEETSIMILAR |
| AREA SEPARATION | UBC CH. 5 | NONE | E.I.F.S. | - EXTERIOR INSULATION | SPECS STOR. | SPECIFICATIONSSTORAGE |
| <u>ALLOWABLE FLOOR AREA</u> | :UBC TABLE 5-B | 30,000 SQ. FT. | 500 | FINISH SYSTEM | TD | T4.0//D0.4.DD |
| AREA INCREASE BASED ON OCCUPANCY | UBC CH. 5 | N/A | EPS EL. | EXTRUDED POLYSTYRENEELEVATION | T.B. T.O. | - TACKBOARD - TOP OF |
| MISC. INCREASES | UBC CH. ? | N/A | | | T.P. | TOILET PAPER |
| NUMBER OF STORIES | UBC TABLE 5-B | 8 | F.D. F.E. | FLOOR DRAINFIRE EXTINGUISHER | TYP. | - TYPICAL |
| ACTUAL AREA | FIRST FLOOR | 7117 SQ. FT. | F.F. | - FINE EXTINGUISHER - FINISH FLOOR | V.B. | - VAPOR BARRIER |
| | TOTAL | 7117 SQ. FT. | FLR FND | FLOORINGFOUNDATION | VCT VER | VINYL COMPOSITION TILEVERIFY |
| EXITS: | | | F.O. | - FACE OF | VNL | - VINYL |
| OCCUPANT LOAD FACTOR (O.L.F.) | UBC TABLE 10-A | 7117/300=23.72 | G.B. | - GYPSUM WALL BOARD | w / | - WITH |
| EXIT CALCULATION BASED ON OCC. LOAD | UBC CH. 10 | 7117/300=23.72 1 EXIT REQUIRED | GWB GYP. BD. | - GYPSUM WALL BOARD - GYPSUM WALL BOARD | w/o ws | WITHOUTWEATHERSHIELD |
| DISTANCE TO EXITS | UBC CH. 10 | 300 FT. | H.C. H M | HANDICAPPEDHOLLOW METAL | | |
| MINIMUM WIDTH | UBC CH. 10 | * | | | | |
| CORRIDORS . | UBC CH. 10 | * | JAN. | - JANITOR | | |
| | | | K.B. | - KEYBOARD | | |
| ROOF CONSTRUCTION: | UBC TABLE 15-A | CLASS B | MECH MFG M.R. | MECHANICALMANUFACTURERMOISTURE RESISTANT | | |
| FLAME SPREAD: | | | MTL | - METAL | | |
| ENCLOSED VERTICAL | UBC TABLE 8-B | CLASS ' II | NIC | - NOT IN CONTRACT | | |

N.I.C. - NOT IN CONTRACT

NOTES AND SYMBOLS MATERIALS LEGEND



A/E #93-35-19 20 DECEMBER 2002

